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1 BlueSky: a cordless networking solution for palmtop computers
Pravin Bhagwat, Ibrahim Korpeoglu, Chatschik Bisdikian, Mahmoud Naghshineh, Satish K. Tripathi
August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**
Full text available: pdf(1.31 MB) Additional Information: full citation, references, index terms

2 Mobile computing in next generation wireless networks
Prathima Agrawal, David Famolari
August 1999 **Proceedings of the 3rd international workshop on Discrete algorithms and methods for mobile computing and communications**
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**Keywords**: IMT-2000, cdma2000, mobile computing, wireless data

3 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

4 Support for mobile pen-based applications
Wayne Citrin, Paul Hamill, Mark D. Gross, Adrienne Warmack
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: pdf(977.39 KB) Additional Information: full citation, references, citings, index terms

**Keywords:** diagram recognition, mobile computing, pen-based interfaces, software architecture

5 Factoring a mobile client's effective processing speeed into the image transcoding decision
Richard Han
August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia**
Full text available: pdf(897.48 KB) Additional Information: full citation, references, citings, index terms

**Keywords:** CPU, PDA, image processing, mobile, partitioning, proxy, transcoding

6 Supporting CORBA applications in a mobile environment
Mads Haahr, Raymond Cunningham, Vinny Cahill
August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**
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7 A proxy architecture for reliable multicast in heterogeneous environments
Yatin Chawathe, Steve A. Fink, Steven McCanne, Eric A. Brewer
September 1998 **Proceedings of the sixth ACM international conference on Multimedia**
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8 MOCA: a service framework for mobile computing devices
James Beck, Alain Gefflaut, Nayeem Islam
August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access**
Full text available: pdf(911.37 KB) Additional Information: full citation, references, citings, index terms

**Keywords:** Java, component software, mobile device, service discovery, service framework

9 Adapting to network and client variability via on-demand dynamic distillation
Armando Fox, Steven D. Gribble, Eric A. Brewer, Elan Amir
October 1996 **Proceedings of the seventh international conference on Architectural support for programming languages and operating systems**, Volume 30 , 31 Issue 5 , 9
Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, citings, index terms

The explosive growth of the Internet and the proliferation of smart cellular phones and handheld wireless devices is widening an already large gap between Internet clients. Clients

vary in their hardware resources, software sophistication, and quality of connectivity, yet server support for client variation ranges from relatively poor to none at all. In this paper we introduce some design principles that we believe are fundamental to providing "meaningful" Internet access for the entire range of ...

**10** NotePals: lightweight note sharing by the group, for the group

Richard C. Davis, James A. Landay, Victor Chen, Jonathan Huang, Rebecca B. Lee, Frances C. Li, James Lin, Charles B. Morrey, Ben Schleimer, Morgan N. Price, Bill N. Schilit

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms

NotePals is a lightweight note sharing system that gives group members easy access to each others experiences through their personal notes. The system allows notes taken by group members in any context to be uploaded to a shared repository. Group members view these notes with browsers that allow them to retrieve all notes taken in a given context or to access notes from other related notes or documents. This is possible because NotePals records the context in which each note is create ...

**11** Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

**Keywords**: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

**12** Introducing contextual objects in an adaptive framework for wide-area mobile computing

A.-M. Kermarrec, P. Couderc, M. Banâtre

September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**

Full text available: pdf(709.23 KB) Additional Information: full citation, index terms

**13** NaviPoint: an input device for mobile information browsing

Kiyokuni Kawachiya, Hiroshi Ishikawa

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(1.04 MB) Additional Information: full citation, references, citings, index terms

**Keywords**: PDAs, hand-held devices, information browsing, input device, mobile computing, user interface

14 Experiences with network-based user agents for mobile applications
Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee
August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available: pdf(631.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

15 Non-keyboard QWERTY touch typing: a portable input interface for the mobile user
Mikael Goldstein, Robert Book, Gunilla Alsiö, Silvia Tessa
May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, citings, index terms

Using traditional mobile input devices results in decreased effectiveness and efficiency. To improve usability issues a portable Non-Keyboard QWERTY touch-typing paradigm that supports the mobile touch-typing user is presented and investigated. It requires negligible training time. Pressure sensors strapped to the fingertips of gloves detect which finger is depressed. A language model based on lexical and syntactic knowledge transforms the depressed finger stroke sequence into real wo ...

**Keywords**: PDA, QWERTY, Wizard-of-Oz, keyboard, language model, lexical knowledge, mobile user, portability, stylus input, syntactic knowledge, text input, touch-typing

16 The mobile people architecture
Petros Maniatis, Mema Roussopoulos, Ed Swierk, Kevin Lai, Guido Appenzeller, Xinhua Zhao, Mary Baker
July 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 3

Full text available: pdf(946.60 KB) Additional Information: full citation, abstract, citings, index terms

People are the outsiders in the current communications revolution. Computer hosts, pagers, and telephones are the addressable entities throughout the Internet and telephony systems. Human beings, however, still need application-specific tricks to be identified, like email addresses, telephone numbers, and ICQ IDs. The key challenge today is to find people and communicate with them personally, as opposed to communicating merely with their possibly inaccessible machines---cell phones that are turn ...

17 A framework for the development of information appliances
Peter J. Thomas, John F. Meech, Robert D. Macredie
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available: pdf(504.79 KB) Additional Information: full citation, references, index terms

**Keywords**: information appliances, mobile/personal systems, personal information management

18 Using code mobility to create ubiquitous and active augmented reality in mobile computing
Kari Kangas, Juha Röning
August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**
Full text available: pdf(1.35 MB) Additional Information: full citation, references, citings, index terms

**Keywords:** augmented reality, mobile code, mobile computing, ubiquitous computing

19 A framework for delivering multicast message in networks with mobile hosts
Arup Acharya, B. R. Badrinath
October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2
Full text available: pdf(438.33 KB) Additional Information: full citation, abstract, references, citings, index terms

To accommodate mobile hosts (MHs) within existing data networks, the static network is augmented with "mobile support stations" (MSSs) that communicate directly with MHs, usually via wireless links. Connectivity of the overall network changes dynamically as MHs connect to the static network fromdifferent "locations" (MSSs) at different times. Compared to their desktop counterparts, mobile hosts face a new set of constraints namely, low bandwidth of the wireless links ...

20 Cluster-based scalable network services
Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5
Full text available: pdf(2.42 MB) Additional Information: full citation, references, citings, index terms



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| S3 | 55 | (((framework with multimedia) and ((mobile portable) adj3 device$1)) and interface$1) and (API$1 (application adj programming adj2 interface$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 13:39 |
| S4 | 43622 | framework.ab.ti. and ((mobile portable) adj3 device$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 13:46 |
| S5 | 43622 | framework.ab.ti. and (((mobile portable) adj3 device$1) with framework$1 with multimedia) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 13:47 |
| S6 | 3 | framework.ab. and (((mobile portable) adj3 device$1) with framework$1 with multimedia) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 13:47 |
| S7 | 53 | framework.ab. and (((mobile portable) adj3 device$1) with framework$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 13:47 |
| S8 | 53 | framework$1.ab. and (((mobile portable) adj3 device$1) with framework$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 13:49 |
| S9 | 130 | (((mobile portable) adj3 device$1) with framework$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 13:53 |

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| S13 | 133 | "719"/$.ccls. and framework$1 and multimedia and interface$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 13:55 |
| S14 | 89 | ("719"/$.ccls. and framework$1 and multimedia and interface$1) and API$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 13:56 |
| S15 | 63 | "717"/$.ccls. and framework$1 and multimedia and interface$1 and API$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 14:22 |
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| S18 | 100 | (((resource$1 memory) near5 (constrain$3 limite$1 small less)) same framework$1) and interface$1 and API$1 and framework$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 14:41 |
| S19 | 368 | ((((resource$1 memory) near5 (constrain$3 limite$1 small less)) ((portable mobile) near3 device$1)) same framework$1) and (interface$1 API$1) and framework$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 14:49 |

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| S31 | 104 | (((((resource$1 memory) near5 (constrain$3 limite$1 small less)) ((portable mobile) near3 device$1))) and (framework$1 same (interface$1 API$1)) and framework$1) and "717"/$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 15:22 |
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| S34 | 2 | "5121326".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 16:14 |
| S35 | 37 | (multimedia adj2 framework) and API$1 and interface$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/20 16:16 |
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| S43 | 0 | "2003/0079052".PN. | USPAT | OR | OFF | 2004/07/21 10:57 |
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| S55 | 2 | "5870559".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 11:10 |
| S56 | 6 | ((multi$1media media) near3 framework$1) same ((portable adj device$1) (mobile adj device$1) (handheld adj device$1) DPA (cell$1 adj phone$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:11 |
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| S59 | 1611 | (framework$1 OS (operating adj system$1)) with ((portable adj device$1) (mobile adj device$1) (handheld adj device$1) DPA (cell$1 adj phone$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:29 |
| S60 | 119 | framework$1 with ((portable adj device$1) (mobile adj device$1) (handheld adj device$1) DPA (cell$1 adj phone$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:21 |
| S61 | 82 | (framework$1 with ((portable adj device$1) (mobile adj device$1) (handheld adj device$1) DPA (cell$1 adj phone$1))) and (API$1 interface$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:13 |
| S62 | 4818 | framework$1 with ((resource$1 memory) (constraint limited)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:22 |
| S63 | 1145859 | ((resource$1 memory) (constraint limited)).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:22 |
| S64 | 45 | framework$1 with ((resource$1 memory) near3 (constraint limited)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:22 |
| S65 | 2882 | ((resource$1 memory) near3 (constraint limited)).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:24 |
| S66 | 19 | framework same ((resource$1 memory) near3 (constraint limited)).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:26 |
| S67 | 762 | (framework$1 OS (operating adj system)) with ((resource$1 memory) near3 (constraint limited)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:27 |
| S68 | 22 | ((framework$1 OS (operating adj system)) with ((resource$1 memory) near3 (constraint limited))) and framework$1.ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:27 |

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|---|---|---|---|---|---|---|
| S69 | 87 | ((framework$1 OS (operating adj system$1)) with ((portable adj device$1) (mobile adj device$1) (handheld adj device$1) DPA (cell$1 adj phone$1))) and framework$1.ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:31 |
| S70 | 1611 | ((framework$1 OS (operating adj system$1)) with ((portable adj device$1) (mobile adj device$1) (handheld adj device$1) DPA (cell$1 adj phone$1))) and ((portable adj device$1) (mobile adj device$1) (handheld adj device$1) DPA (cell$1 adj phone$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:32 |
| S71 | 247 | (((framework$1 OS (operating adj system$1)) with ((portable adj device$1) (mobile adj device$1) (handheld adj device$1) DPA (cell$1 adj phone$1))) and ((portable adj device$1) (mobile adj device$1) (handheld adj device$1) DPA (cell$1 adj phone$1))) and API$1 and (media multi$1media) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/07/21 12:33 |
| S72 | 4376 | (((hand$1held mobile portable) adj2 device$1) PDA cell$1phone$1) and (memory near4 size) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/06 09:10 |
| S73 | 266 | S72 and kbytes | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/06 09:24 |
| S74 | 35 | S73 and API$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/06 09:11 |
| S75 | 0 | S72 and (API$1 with kbytes) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/06 09:24 |
| S76 | 2 | S72 and ((API$1 interface$1) with kbytes) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/06 09:24 |

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|---|---|---|---|---|---|---|
| S77 | 142 | (framework with multimedia) and (((mobile portable hand$1held) adj2 device$1) PDA$1 cell$1phone$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/11 09:51 |
| S78 | 82 | S77 and (API$1 (program$5 adj2 interface$1)) and (memory resource) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/11 09:39 |
| S79 | 1 | "6351751".PN. | USPAT; USOCR | OR | OFF | 2005/04/11 09:42 |
| S80 | 1 | "6349333".PN. | USPAT; USOCR | OR | OFF | 2005/04/11 09:43 |
| S81 | 1 | "6339826".PN. | USPAT; USOCR | OR | OFF | 2005/04/11 09:43 |
| S82 | 1 | "6304893".PN. | USPAT; USOCR | OR | OFF | 2005/04/11 09:43 |
| S83 | 1 | "6199762".PN. | USPAT; USOCR | OR | OFF | 2005/04/11 09:43 |
| S84 | 1 | "6115642".PN. | USPAT; USOCR | OR | OFF | 2005/04/11 09:43 |
| S85 | 1 | "5933816".PN. | USPAT; USOCR | OR | OFF | 2005/04/11 09:43 |
| S86 | 11968 | (framework$1 OS (operating adj system)) same (((mobile portable hand$1held) adj2 device$1) PDA$1 cell$1phone$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/11 09:52 |
| S87 | 6792 | (framework$1 OS (operating adj system)) with (((mobile portable hand$1held) adj2 device$1) PDA$1 cell$1phone$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/11 09:52 |
| S88 | 659 | S87 and ((limited constrain$4) near3 (memory resource$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/11 09:53 |
| S89 | 154 | S88 and ((framework$1 OS (operating adj system$1)) with (API$1 (programming adj2 interface$1))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/11 09:53 |

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